REMARKS

Reconsideration and allowance are respectfully requested. Claims 1 and 5 have been amended. Claims 2, 3, 6 and 7 have been canceled. Claims 1, 4, 5 and 8 remain pending in this application.

The objection to the disclosure has been addressed above.

Claims 1-8 stand rejected under 35 U.S.C. 103(a) as being unpatentable over the Applicants' Admitted Prior Art (AAPA) in view of Carsello.

Claims 1 and 5 have been amended to define the invention more clearly and thus, obviate the rejection. In particular, claim 1 as amended includes the subject matter of claims 2 and 3 and recites that the filtering further includes suppressing any pilot energy from the first and second components, and the filtering further includes filtering any DC energy from the first and second components. Claim 5 as amended includes the subject matter of claims 6 and 7 and recites that the filter module includes a first filter configured for suppressing any pilot energy from the first and second components, and that the filter module includes a second filter configured for filtering any DC energy from the first and second components.

The Examiner contends that Carsello teaches a DC notch filter to remove DC distortion, "such that the filtered first and second components having (sic) equal power distribution". Carsello, however does not teach or suggest that the filtered first and second components have (sic) equal power distribution. Applicant requests the Examiner to indicate by column and line number where Carsello teaches this claimed feature. Otherwise the rejection is legally deficient because it fails to establish that the prior art teaches the claimed elements, as asserted.

In addition, the Examiner contends that it would have been obvious to provide the DC notch filter of Carsello in the AAPA to "remove DC distortion". However, the claims recite that DC energy is filtered, not DC distortion. In fact, Carsello requires DC energy to be present in his signal. See column 4, lines 52-57 of Carsello where it is taught that the DC term 406 accounts for about 15% of the pilot signal energy and is a critical element of the PAS-QAM signal. Carsello further teaches that simulations which notch out this DC term "have shown

unacceptable receiver sensitivity..." Thus, Carsello teaches away from notching out DC energy and if the notch filters of Carsello were employed in the AAPA, DC energy would be present, but distortion thereof would be filtered. For these reasons, claims 1 and 5 as amended, and the claims that depend there-from are considered to be in condition for allowance.

In view of the above, it is believed this application is in condition for allowance, and such a Notice is respectfully solicited.

Respectfully submitted,

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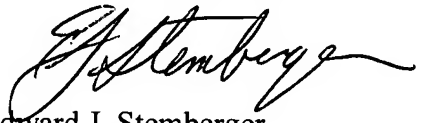

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Date: June 5, 2007